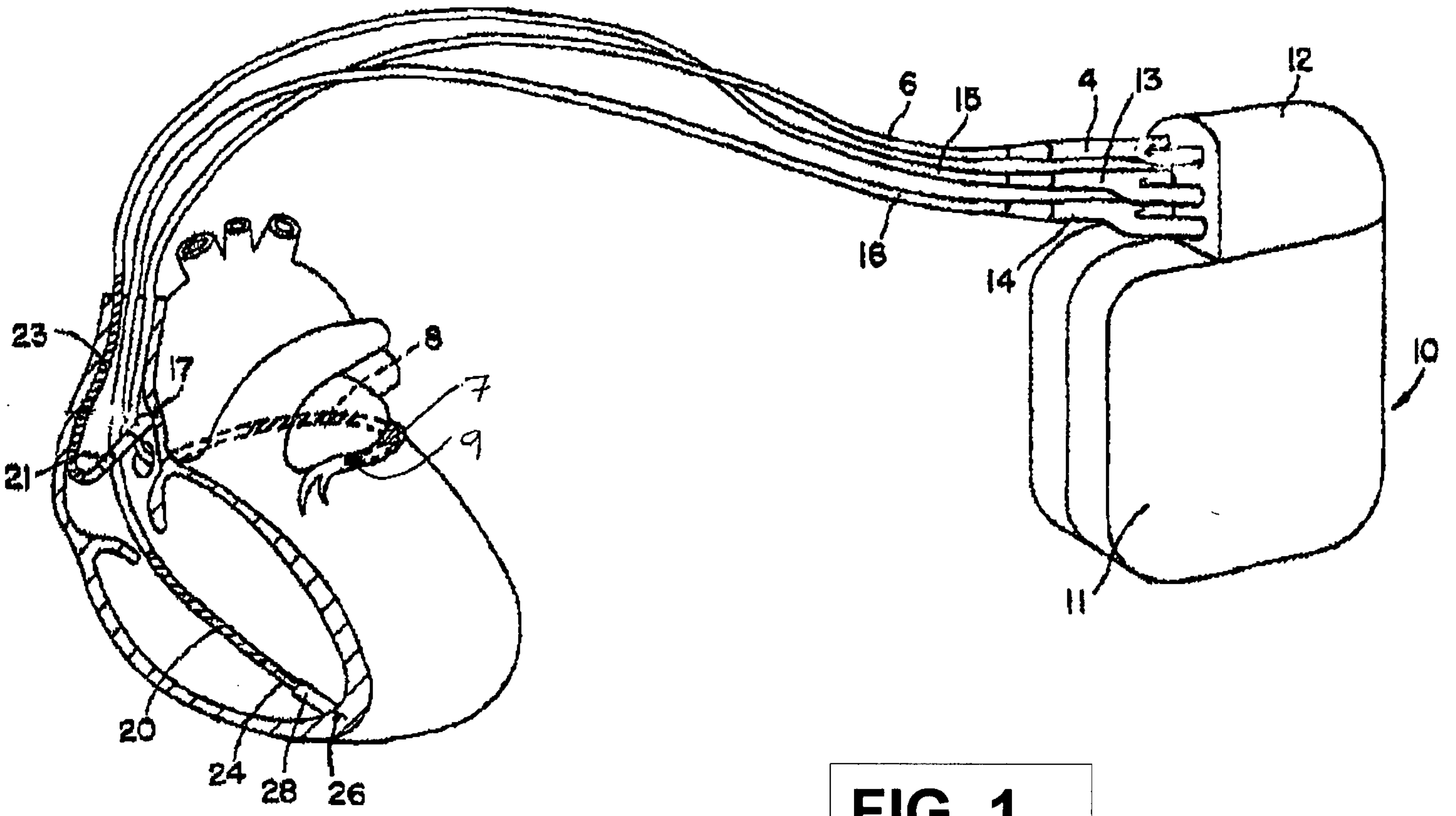

FIG. 1

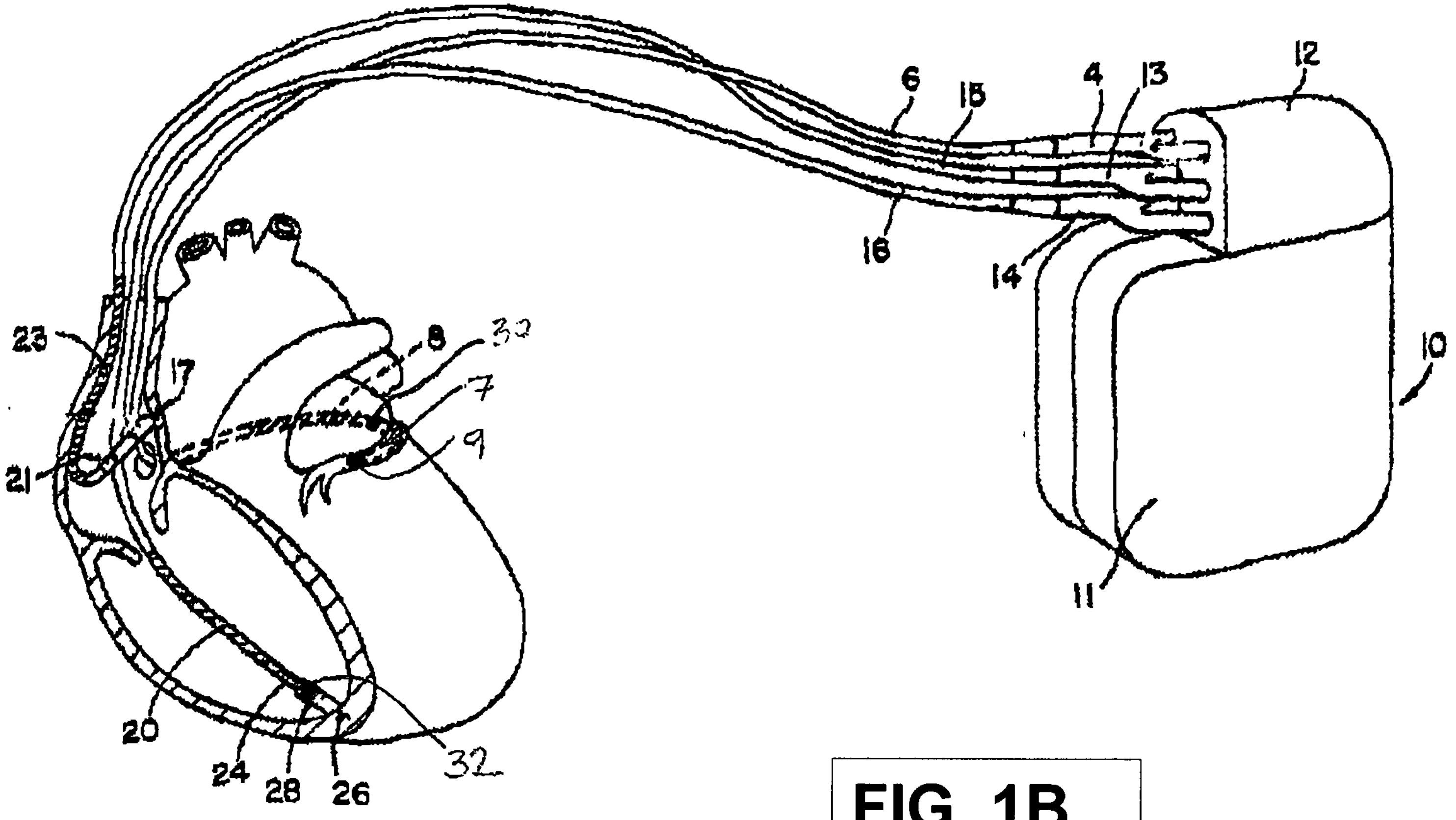

FIG. 1B

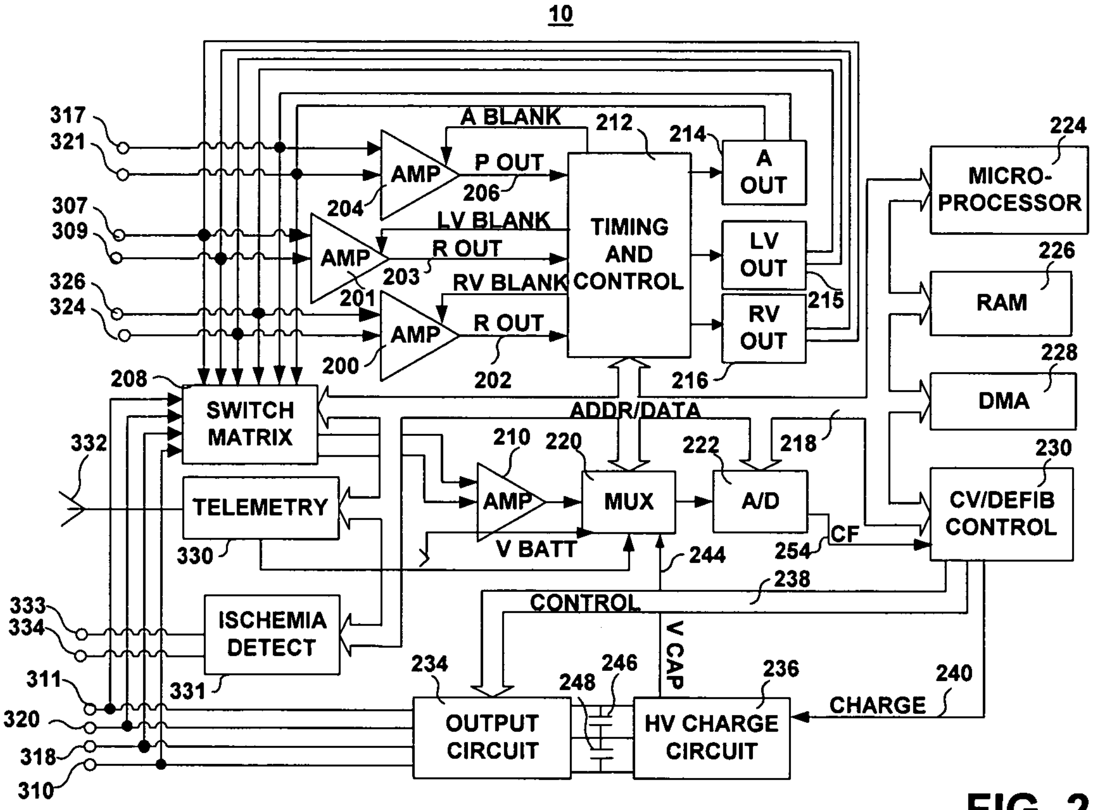
10
317
321
307
309
326
324
A BLANK
212
214
AMP
P OUT
204
206
A OUT
LV BLANK
AMP
R OUT
TIMING AND CONTROL
LV OUT
203
201
RV BLANK
215
AMP
R OUT
RV OUT
200
202
216
208
SWITCH MATRIX
ADDR/DATA
224
MICRO-PROCESSOR
226
RAM
228
DMA
332
210
220
222
218
230
TELEMETRY
AMP
MUX
A/D
CV/DEFIB CONTROL
CF
330
V BATT
244
254
238
333
334
CONTROL
ISCHEMIA DETECT
V CAP
311
331
234
248
246
236
240
320
OUTPUT CIRCUIT
HV CHARGE CIRCUIT
CHARGE
318
310

FIG. 2

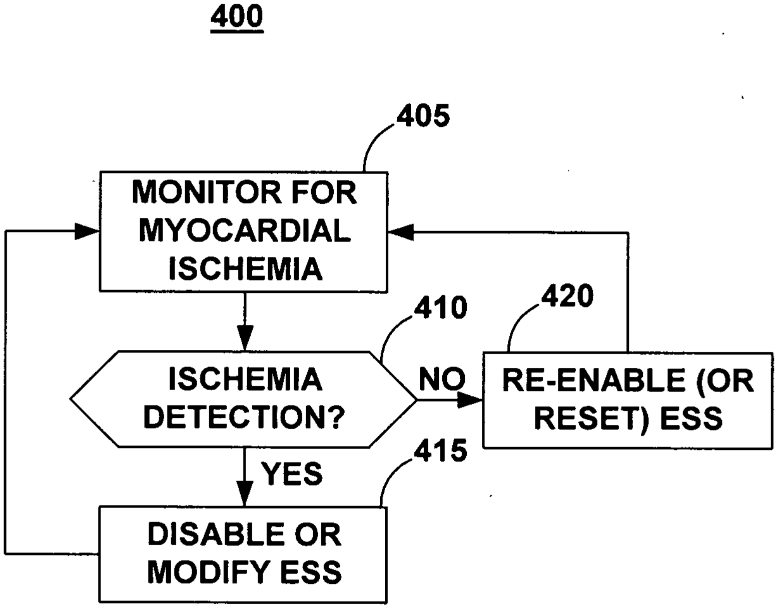400
405
MONITOR FOR MYOCARDIAL ISCHEMIA
410
ISCHEMIA DETECTION?
NO
420
RE-ENABLE (OR RESET) ESS
YES
415
DISABLE OR MODIFY ESS

FIG. 3

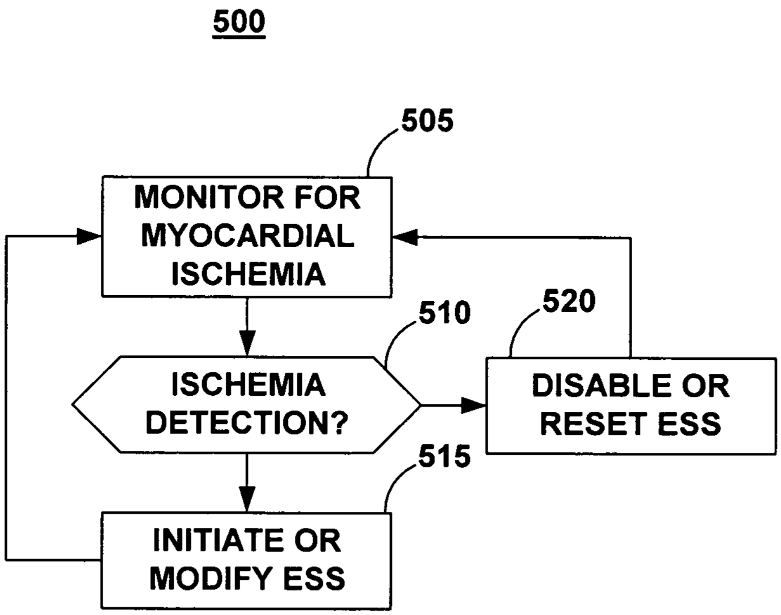
500
505
MONITOR FOR MYOCARDIAL ISCHEMIA
510
520
ISCHEMIA DETECTION?
DISABLE OR RESET ESS
515
INITIATE OR MODIFY ESS

FIG. 4

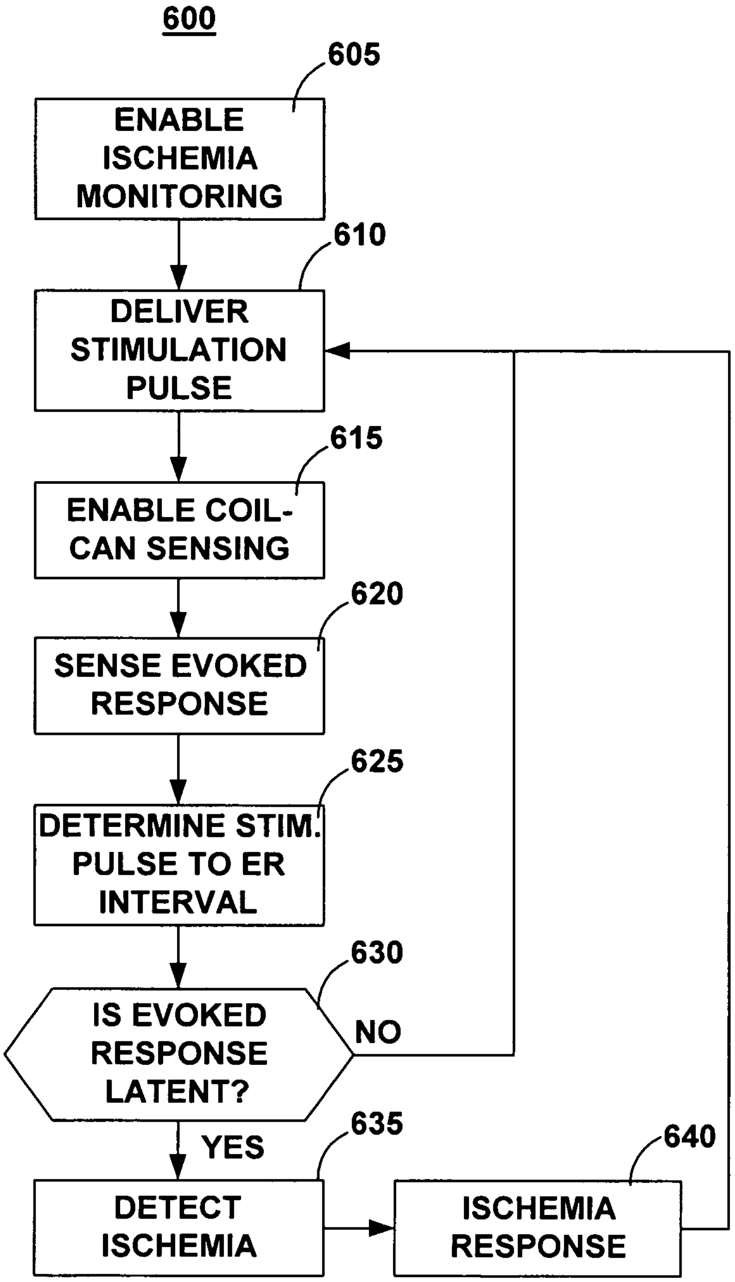
600
605
ENABLE ISCHEMIA MONITORING
610
DELIVER STIMULATION PULSE
615
ENABLE COIL-CAN SENSING
620
SENSE EVOKED RESPONSE
625
DETERMINE STIM. PULSE TO ER INTERVAL
630
IS EVOKED RESPONSE LATENT?
NO
YES
635
DETECT ISCHEMIA
640
ISCHEMIA RESPONSE

FIG. 5

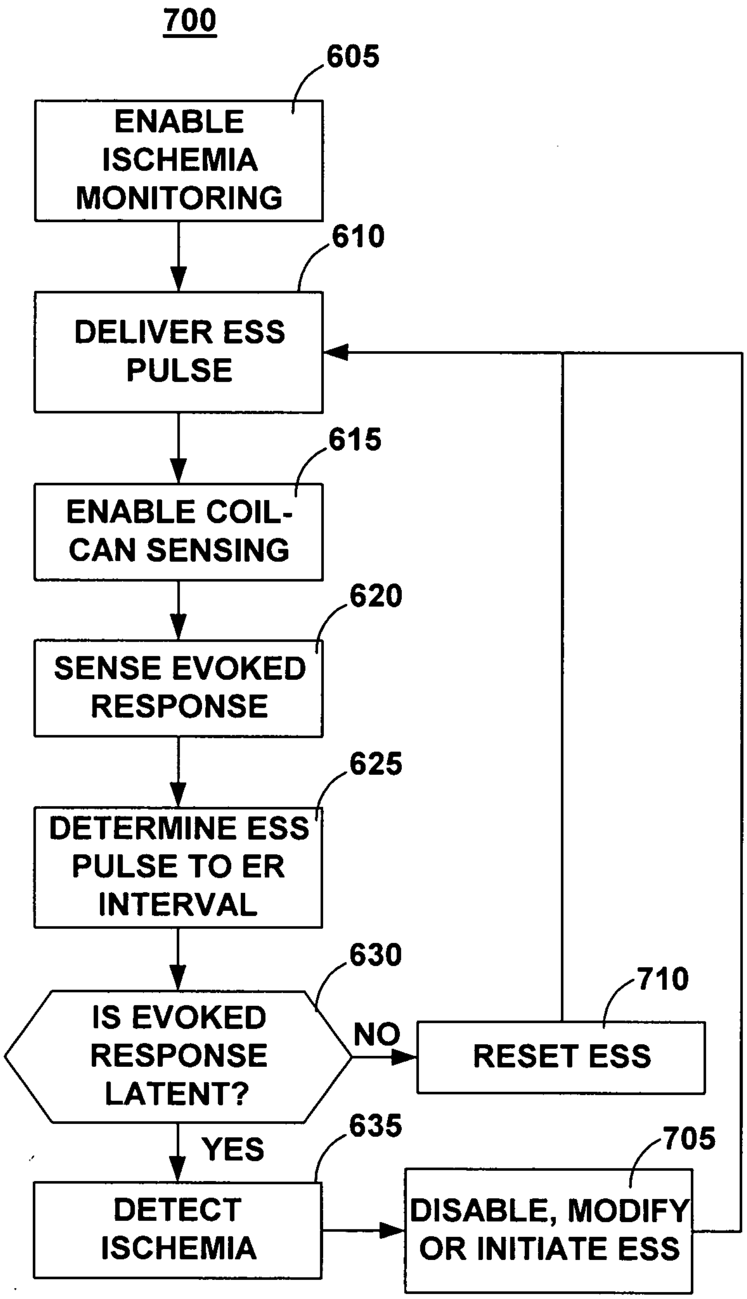
700
605
ENABLE ISCHEMIA MONITORING
610
DELIVER ESS PULSE
615
ENABLE COIL-CAN SENSING
620
SENSE EVOKED RESPONSE
625
DETERMINE ESS PULSE TO ER INTERVAL
630
IS EVOKED RESPONSE LATENT?
NO
710
RESET ESS
YES
635
DETECT ISCHEMIA
705
DISABLE, MODIFY OR INITIATE ESS

FIG. 6